

Status of Department of Defense (DoD) Explosives Safety Criteria for Non-DoD Owned Explosives on DoD Installations



Presented by:
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DoD Explosives Safety Board

In September 1996, the Chairman of the DoD Explosives Safety Board (DDESB) designated the U.S. Air Force to lead a working group composed of all Services and appropriate government agencies to examine the need for new DoD explosives safety criteria regarding the placement of non-DoD operations or activities on DoD installations.

The working group established a charter, 3 December 1996, with the following objectives:

- a. Appropriately protect the Department's mission capability and personnel from the consequences of an explosives mishap involving non-DoD explosives activities conducted on those installations.
- b. Appropriately protect the public from the consequences of explosives mishaps involving non-DoD activities on DoD property.
- c. Appropriately protect non-DoD activities and personnel on DoD installations from the effects of a mishap involving DoD explosives operations.
- d. Recommend new criteria where existing criteria is deemed inadequate.
- e. Coordinate with appropriate DoD and federal agencies, state and local governments, and civilian standards or trade organizations to assure consistency and appropriateness of guidance, and freedom of conflict with other standards.

Membership is composed of representatives of the following agencies:

- Department of Defense Explosives Safety Board, DDESB-KO
- U.S. Air Force, AFSC/SEW

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- Federal Aviation Authority, FAA/AST
- Bureau of Alcohol, Tobacco, and Firearms, BATF
- National Aeronautics and Space Administration, NASA

The working group's proposed interim criteria was submitted to the Chairman, DDESB on 25 April 1998. This proposal was an application of the DoD Ammunition and Explosives Safety Standards, DoD 6055.9-STD, tailored to provide protection to the DoD mission from undue risk from the non-DoD explosives operation and/or location. When facilities are shared, the DoD component must accept the risk to the DoD mission.

After review by the DoD Office of General Counsel, the Chairman, DDESB approved the Working Group's proposal as interim criteria on 24 November 1997. A validation period for the interim criteria has been in effect since then. We expect the final criteria to be ready for presentation to the Board for inclusion in the DoD 6055.9-STD at the January 1999 DDESB board meeting. To date, the interim criteria has been applied to five Air Force space launch facility and one non explosives X-ray facility site plans, and three Army ammunition plant facility site plans.

The working group met on 15 July 1998 to review the experiences gained and lessons learned by the Services in the application of these interim criteria. Minor changes were made to the criteria to clarify applications. Attachment 1 is a matrix that shows application of DoD explosives safety standards to non-DoD explosives storage and operating locations. Attachment 2 identifies principal agencies that are involved in explosives operations/activities.

PROPOSED CRITERIA FOR NON-DoD EXPLOSIVES ACTIVITIES (1)

<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">To From</div> <div style="font-size: 2em;"> <div style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 10px solid black; margin-right: 5px;"></div> <div style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-top: 10px solid black;"></div> </div> </div>	Non-DoD Storage	DoD/Joint Storage	Non-DoD Operations	DoD Explosives Operations	Shared Launch Facilities	Non-Explosives Operations
Non-DoD Storage	Check for IM	IM	Check for IM	IBD	IBD	IBD
Non-DoD Operations	Check for IM	IBD	Check for IM	IBD	IBD	IBD
Shared Launch Facilities	IBD	IL	IBD	IBD	IL	IBD
DoD/Joint Storage	IM	IM	IBD	IL	IBD	IBD
DoD Explosives Operations	IBD	IL	IBD	IL	IBD	IBD

(1) Non-DoD activities must be conducted only when risk to DoD mission has been evaluated and accepted as determined by service involved.

Definitions and Assumptions:

DoD Operations: A DoD or other federal agency explosives operation under DoD oversight, procedure and control.

Non-DoD Operations: Explosives operation that is not a DoD operation.

Shared Launch Facility: Any facility that supports both DoD and Non-DoD launch services and operations.

Joint Storage: DoD/Non-DoD explosives storage under DoD control.

IBD: Use criteria in DoD 6055.9-STD.

DoD site approval for Non-DoD operation and Non-DoD storage will be limited to a “foot print” only. Building design, lightning protection, etc., will not be included unless it is used to determine the IBD arc.

“Check for IM” means we will determine the MCE for an event as that quantity of explosives that are not separated by IM distance or equivalent protection.

AGENCY RESPONSIBILITY

	ACTIVE MILITARY MISSION (3) (4)		<u>KEY TO MATRIX</u>	
			ACCIDENTS	QD
			SURVEY/INSPECTIONS	OPERATIONAL
1. PRIVATE FIRM DOD EXPLOSIVES MISSION	DOD OSHA	DOD (1)	<u>Accidents:</u> Principle agency responsible for investigation of explosives accidents <u>QD:</u> Application of explosives QD standards <u>Surveys/Inspections:</u> Agencies responsible for conducting explosives safety surveys <u>Operational:</u> Principle agency responsible for enforcement of operating safety rules QD – Quantity Distance DoD – Department of Defense OSHA – Occupational Safety & health Administration BATF – Bureau of Alcohol, Tobacco and Firearms F – Federal Agency S – State Agency L – Local Government Agency FAA – Federal Aviation Administration (1) All DoD QD criteria, internal/external (2) Internal QD only of concern if it affects external QD (3) DoD will check for DoD QD only (4) Unless DoD explosives present, then (1) above NOTE: <u>External</u> refers to QD arcs beyond boundaries <u>Internal</u> refers to QD arcs within operating areas	
	DOD OSHA	DOD		
2. PRIVATE FIRM DOD NON-EXPLOSIVES MISSION	N/A	DOD (1)		
	N/A	N/A		
3. PRIVATE FIRM NON-DOD EXPLOSIVES MISSION	OSHA BATF FAA	BATF DOD (2) OSHA		
	FAA, DOD OSHA BATF	OSHA FAA BATF		
4. PRIVATE FIRM NON-DOD NON-EXPLOSIVES MISSION	N/A	DOD (1)		
	N/A	N/A		
5. FEDERAL, STATE, OR LOCAL AGENCY EXPLOSIVES MISSION	F, S, L, FAA	DOD (2) F, S, L, FAA		
	F, S, L FAA, DOD	F, S, L, FAA		
6. FEDERAL, STATE, OR LOCAL AGENCY NON-EXPLOSIVES MISSION	N/A	DOD (1)		
	N/A	N/A		